

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat $41^{\circ}51'31''$, long $113^{\circ}19'35''$, in NW $^1/4$ NW $^1/4$ NW $^1/4$ sec. 15, T. 13 N., R. 13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi 2 .

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

REVISED RECORDS.--WDR UT-99-1: 1998, daily values.

GAGE.--Water-stage recorder. Elevation of gage is 6,250 ft above NGVD of 1929, from topographic map. Prior to August 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for flood-flows, located approximately 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft 3 /s, May 28, 1983; minimum discharge, 0.14 ft 3 /s, Mar 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45 ft 3 /s, May 20, gage height, 2.23 ft; minimum daily discharge, 0.64 ft 3 /s, Sep 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	1.1	1.0	1.1	0.87	e0.80	4.7	6.3	24	5.7	1.7	0.81
2	0.66	1.1	1.0	1.1	0.87	0.94	5.6	6.4	24	5.4	2.0	0.78
3	0.66	1.1	1.0	1.1	0.87	0.94	5.4	6.8	23	5.3	2.0	0.70
4	0.66	1.1	1.0	1.0	0.87	0.94	5.2	6.9	20	5.0	1.7	0.69
5	0.66	1.1	1.0	1.0	0.87	0.92	5.7	6.6	18	4.7	1.6	0.71
6	0.66	1.1	1.1	1.0	0.87	0.87	5.8	7.0	17	4.5	1.5	1.5
7	0.66	1.0	e1.0	1.0	0.87	0.88	5.5	7.6	16	4.2	1.5	2.2
8	0.66	1.0	1.5	1.0	0.77	e0.80	5.2	8.5	14	3.8	1.5	1.2
9	0.72	0.98	1.4	1.0	e0.90	1.0	4.9	8.7	13	3.6	1.4	1.2
10	0.77	0.94	1.3	0.98	1.0	1.0	4.7	8.8	11	3.3	1.4	0.92
11	0.85	0.94	1.3	1.1	0.95	1.0	4.5	9.6	9.5	3.2	1.3	0.87
12	1.1	0.94	1.3	1.2	0.94	1.0	4.6	9.8	8.4	3.2	1.2	0.87
13	1.2	0.94	1.2	1.3	0.94	1.1	4.8	9.5	e7.8	3.0	1.3	0.84
14	1.1	0.94	1.2	1.1	0.94	1.0	5.1	11	e7.6	2.9	1.3	0.78
15	1.2	0.94	e1.0	1.1	0.94	1.0	5.7	13	7.9	2.9	1.2	0.75
16	1.2	0.94	1.3	1.0	0.93	1.0	5.4	15	8.0	2.9	1.1	0.73
17	1.2	0.92	1.2	1.0	0.88	1.0	5.3	16	7.7	2.8	1.1	1.0
18	1.2	0.87	1.2	1.0	0.94	1.0	4.9	20	7.9	2.8	1.1	1.0
19	1.2	0.87	1.2	0.98	0.94	1.0	4.0	26	7.9	2.6	1.1	e0.90
20	1.1	0.87	1.2	0.94	0.94	1.0	4.1	39	7.9	2.7	1.1	e0.80
21	1.1	0.87	1.2	0.94	0.92	1.4	4.0	32	8.3	2.4	1.1	0.74
22	1.1	1.2	1.2	e0.90	0.94	1.6	4.0	22	8.3	2.4	1.1	0.77
23	1.1	1.2	1.2	e0.98	1.0	2.0	4.2	16	8.2	2.3	1.0	0.75
24	1.1	0.88	1.2	0.97	1.0	1.9	4.2	13	7.5	2.2	0.93	0.67
25	1.1	0.90	1.2	0.87	0.93	1.8	4.1	12	7.3	2.3	0.91	0.64
26	1.0	1.1	1.1	0.87	1.00	1.6	4.7	12	7.1	2.3	0.88	0.66
27	1.0	1.1	1.1	0.87	0.99	1.7	5.1	12	7.0	2.1	0.87	0.69
28	1.0	1.0	1.1	0.87	0.98	2.2	5.3	15	6.8	2.0	0.85	0.72
29	1.0	1.0	1.1	0.82	---	2.5	5.7	16	6.5	1.9	0.84	0.71
30	1.0	1.0	1.1	0.87	---	3.1	6.0	19	6.2	1.8	0.82	0.73
31	1.5	---	1.1	0.87	---	3.7	---	23	---	1.7	0.83	---
TOTAL	30.12	29.94	36.0	30.83	25.86	42.69	148.4	434.5	333.8	97.9	38.23	26.33
MEAN	0.972	0.998	1.161	0.995	0.924	1.377	4.947	14.02	11.13	3.158	1.233	0.878
MAX	1.5	1.2	1.5	1.3	1.0	3.7	6.0	.39	24	5.7	2.0	2.2
MIN	0.66	0.87	1.0	0.82	0.77	0.80	4.0	6.3	6.2	1.7	0.82	0.64
AC-FT	60	59	71	61	51	85	294	862	662	194	76	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972-73, 1977-2002, BY WATER YEAR (WY)

MEAN	1.862	1.576	1.319	1.256	1.365	2.439	5.330	18.51	19.12	7.021	3.257	2.072
MAX	3.64	2.45	2.09	2.04	2.82	6.33	16.4	38.1	57.3	17.9	8.45	4.58
(WY)	1985	1983	1983	1980	1986	1986	1986	1997	1983	1983	1984	1984
MIN	0.77	0.75	0.64	0.59	0.62	0.85	1.15	3.40	3.13	1.25	0.62	0.61
(WY)	1993	1995	1995	1995	1995	1977	1991	1977	1992	1994	2001	1994

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1972-73, 1977-2002

ANNUAL TOTAL	1009.18		1274.60		5.441
ANNUAL MEAN	2.765		3.492		
HIGHEST ANNUAL MEAN					12.0
LOWEST ANNUAL MEAN					2.00
HIGHEST DAILY MEAN	21	May 16	39	May 20	150
LOWEST DAILY MEAN	0.53	Aug 9	0.64	Sep 25	0.32
ANNUAL SEVEN-DAY MINIMUM	0.54	Aug 3	0.66	Oct 1	0.42
ANNUAL RUNOFF (AC-FT)	2000		2530		3940
10 PERCENT EXCEEDS	7.8		8.3		13
50 PERCENT EXCEEDS	1.1		1.1		2.0
90 PERCENT EXCEEDS	0.66		0.84		0.94

e Estimated